# WPG2401

# 802.11b/g Wireless LAN PCI Card

The **WPG2401** is an IEEE802.11g compliant wireless PCI Card. It provides superior performance and interoperability within a mixed mode network (802.11b and 802.11g). The **WPG2401** is backwards compliant with all 802.11b and 802.11b+ wireless equipment, making it a seamless integrator for the most popular wireless networks. Plus, this all-new wireless PCI Card provides a high transfer rate up to 54Mbps for today's high-speed broadband connections.

The **WPG2401** allows you to take full advantage of your PC's mobility with access to real-time information and online services anytime and anywhere. Plus, with the network installation simplicity and flexibility, you can eliminate the need to pull cable through walls and ceilings and allow the network to go where wires cannot go. Exploring WWW and augmenting networks can never be done more easily.

## FEATURES

- Complies with IEEE 802.11b and 802.11g standard for 2.4GHz Wireless LAN.
- Compliant with PCI 2.2 Standard
- Works with all existing network infrastructure.
- Complies with specific wireless products and services.
- Capable of up to 256-Bit WEP Encryption.
- Freedom to roam while staying connected.

- 22-Mbps Packet Binary Convolution Coding (PBCC) (according to the IEEE Std 802.11b high-rate specification)
- Up to 54 Mbps data transfer rate in 802.11g mode of operation
- Supports Windows98/2000/ME/XP
- Lower power consumption.
- Easy to install and configure.

## SPECIFICATIONS

| Standard | IEEE 802.11b, IEEE 802.11g Standard |
|---|---|
| Host Interface | PCI Interface 2.2 |
| Operating Voltage | 5V ± 5% |
| Power Requirement | Power consumption at 11g<br>TX: 630mA, RX: 350mA<br>Power consumption at 11b<br>TX: 600mA, RX: 350mA |
| Antenna Type | Dipole Antenna |
| Frequency Range | **2.412GHz-2.4835GHz** |
| Modulation | 11g:Orthogonal Frequency Division Multiplexing (OFDM)<br>54Mbps/48Mbps:QAM-64<br>36Mbps/24Mbps:QAM-16<br>18Mbps/12Mbps:QPSK<br>9Mbps/6Mbps:BPSK<br>11b+: Packet Binary Convolution Coding (PBCC)<br>22Mbps/11Mbps/5.5Mbps:PBCC<br>11b:Direct Sequence Spread Spectrum (DSSS)<br>11Mbps/5.5Mbps:CCk<br>2Mbps:DQPSK<br>1Mbps:DBPSK |

**WPG2401**

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|---|---|
| **Number of Selectable Channels** | USA, Canada (FCC): 11 channels (2.412GHz~2.462GHz)<br>Europe (CE): 13 channels (2.412GHz~2.472GHz)<br>Japan (TELEC): 14 channels (2.412GHz~2.4835GHz) |
| **Modulation Technique** | 802.11b: Direct Sequence Spread Spectrum (PBCC, CCK, DQPSK, DBPSK)<br>802.11g: Orthogonal frequency division multiplexing |
| **Data Rate** | 802.11b(22Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps)<br>802.11g(54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps) |
| **Preamble** | 802.11b: Both Short and Long preamble<br>802.11g: Long preamble only |
| **Security** | Hardware-Based Encryption/Decryption Using 64-, 128-, and 256-Bit Wired-Equivalent Privacy (WEP) Keys, WPA and WPA2 are also supported. |
| **Output Power** | 54Mbps OFDM: 12dBm~14dBm; 11Mbps CCK: 16dBm~18dBm |
| **Receiver Sensitivity** | -72dBm at 54Mpbs, 10% PER<br>-72dBm at 48Mpbs, 10% PER<br>-75dBm at 36Mpbs, 10% PER<br>-79dBm at 24Mpbs, 10% PER<br>-82dBm at 18Mpbs, 10% PER<br>-83dBm at 22Mbps, 8% PER<br>-84dBm at 12Mpbs, 10% PER<br>-82dBm at 11Mpbs, 8% PER<br>-87dBm at 9Mpbs, 10% PER<br>-88dBm at 6Mpbs, 10% PER<br>-85dBm at 5.5Mpbs, 8% PER<br>-86dBm at 2Mpbs, 8% PER<br>-89dBm at 1Mpbs, 8% PER |
| **Range** | Indoors: up to 100meters; Outdoors: up to 400meters |
| **Media Access Protocol** | CSMA/CA (Collision Avoidance) with ACK |
| **Physical Specifications** | Weight:  49g (Antenna not included)<br>Dimension: 119.91 (L) x 46.7(W) mm |
| **Environment Specifications** | Operating Temperature: 0~60℃ ambient temperature<br>Storage Temperature: -20~70℃ ambient temperature<br>Operating humidity: 90% maximum (non-condensing)<br>Storage humidity: 90% maximum (non-condensing) |
| **Supported OS** | Windows 98SE<br>Windows ME<br>Windows 2000<br>Windows XP |
| **EMC Certification** | FCC Part 15.247 in US. EN300328 and EN300826 (EN301489-17) in Europe |